

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Hyssopus officinalis*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
67	1,8-CINEOLE	Shoot	488	610	-0.1268500303308429	Indian Perfumer, 35: 51.
67	1,8-CINEOLE	Essential Oil	--	122000	-0.2995646683900661	
2	3-OCTANOL	Plant	--	--		Planta Medica, 55: 226.
2	ALPHA-HUMULENE	Flower	1	12	-0.8529274950889835	
2	ALPHA-HUMULENE	Leaf	1	140	-0.23026576726663947	
11	ALPHA-PHELLANDRENE	Flower	12	120	-1	Flavour and Fragrance Journal, 6: 69.
11	ALPHA-PHELLANDRENE	Leaf	5	320	-0.08738448361690086	
11	ALPHA-PHELLANDRENE	Essential Oil	--	--		
28	ALPHA-PINENE	Leaf	0.1	280	-0.12975468398012238	
28	ALPHA-PINENE	Shoot	40	40	-0.1434592289717137	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
28	ALPHA-PINENE	Shoot	--	20	-0.14545386782429234	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
28	ALPHA-PINENE	Shoot	--	30	-0.144456548398003	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
28	ALPHA-PINENE	Shoot	--	80	-0.13946995126655645	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
28	ALPHA-PINENE	Shoot	--	70	-0.14046727069284576	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
28	ALPHA-PINENE	Shoot	--	40	-0.1434592289717137	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
28	ALPHA-PINENE	Shoot	--	60	-0.14146459011913506	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
28	ALPHA-PINENE	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
28	ALPHA-PINENE	Shoot	--	40	-0.1434592289717137	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
28	ALPHA-PINENE	Essential Oil	--	--		
13	ALPHA-TERPINENE	Leaf	1	411	0.6590992695708332	
23	ALPHA-TERPINEOL	Flower	0.3	3	-0.7017091422809357	Flavour and Fragrance Journal, 6: 72.
23	ALPHA-TERPINEOL	Leaf	0.1	360	0.041693203276555756	
6	ALPHA-THUJONE	Shoot	20	20	-0.2729422248942492	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
6	ALPHA-THUJONE	Shoot	--	10	-0.2770334359740345	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.

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6	ALPHA-THUJONE	Shoot	--	10	-0.2770334359740345	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
6	ALPHA-THUJONE	Shoot	--	20	-0.2729422248942492	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
6	ALPHA-THUJONE	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
6	ALPHA-THUJONE	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
6	ALPHA-THUJONE	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
6	ALPHA-THUJONE	Shoot	--	10	-0.2770334359740345	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
6	ALPHA-THUJONE	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
6	ALPHA-THUJONE	Shoot	--	20	-0.2729422248942492	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
24	BENZALDEHYDE	Shoot	--	--		Indian Perfumer, 35: 51.
9	BENZYL-ALCOHOL	Flower	3	32	-0.7063856201770791	Flavour and Fragrance Journal, 6: 72.
9	BENZYL-ALCOHOL	Leaf	0.1	30	1.601098364560363	Flavour and Fragrance Journal, 6: 72.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	BENZYL-ALCOHOL	Essential Oil	--	--		
5	BETA-ELEMENE	Plant	--	--		
13	BETA-IONONE	Flower	0.6	6	-0.5924279733807828	Flavour and Fragrance Journal, 6: 72.
13	BETA-IONONE	Leaf	0.3	4	-0.8302186598528475	Flavour and Fragrance Journal, 6: 72.
2	BETA-MYRCENE	Shoot	80	80	-0.1971793163523678	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
2	BETA-MYRCENE	Shoot	--	70	-0.21760278603105	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
2	BETA-MYRCENE	Shoot	--	120	-0.11548543763763912	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
2	BETA-MYRCENE	Shoot	--	130	-0.09506196795895694	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
2	BETA-MYRCENE	Shoot	--	90	-0.17675584667368563	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
2	BETA-MYRCENE	Shoot	--	120	-0.11548543763763912	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
2	BETA-MYRCENE	Shoot	--	70	-0.21760278603105	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	BETA-MYRCENE	Shoot	--	50	-0.2584497253884143	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	BETA-MYRCENE	Shoot	--	80	-0.1971793163523678	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
3	BETA-PHELLANDRENE	Flower	34	348		Flavour and Fragrance Journal, 6: 69.
3	BETA-PHELLANDRENE	Leaf	1	800	1.4464464977775597	
3	BETA-PHELLANDRENE	Shoot	330	330	0.8120214473898526	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
3	BETA-PHELLANDRENE	Shoot	--	190	0.20053484678699166	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
3	BETA-PHELLANDRENE	Shoot	--	280	0.5936333757459736	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
3	BETA-PHELLANDRENE	Shoot	--	380	1.0304095190337315	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
3	BETA-PHELLANDRENE	Shoot	--	330	0.8120214473898526	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
3	BETA-PHELLANDRENE	Shoot	--	290	0.6373109900747495	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	BETA-PHELLANDRENE	Shoot	--	50	-0.41095175381586924	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
3	BETA-PHELLANDRENE	Shoot	--	60	-0.3672741394870935	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
3	BETA-PHELLANDRENE	Shoot	--	50	-0.41095175381586924	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
3	BETA-PHELLANDRENE	Essential Oil	--	--		
13	BETA-PINENE	Leaf	66	4580	6.3263317984661365	
13	BETA-PINENE	Shoot	--	168000	11.646965341540012	
13	BETA-PINENE	Shoot	--	520	-0.08467542067213087	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
13	BETA-PINENE	Shoot	--	620	-0.07767061964382173	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
13	BETA-PINENE	Shoot	--	1750	0.0014836319760715047	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
13	BETA-PINENE	Shoot	--	1080	-0.04544853491359971	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
13	BETA-PINENE	Shoot	--	1050	-0.04754997522209245	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	BETA-PINENE	Shoot	--	930	-0.055955736456063415	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
13	BETA-PINENE	Shoot	--	790	-0.06576245789569621	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
13	BETA-PINENE	Shoot	--	780	-0.06646293799852712	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
13	BETA-PINENE	Essential Oil	--	102000	1.5344583642563674	
47	BETA-SITOSTEROL	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
5	BETA-THUJONE	Shoot	0.1	0.1	-0.3181087855129189	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	BETA-THUJONE	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	BETA-THUJONE	Shoot	--	20	-0.313491451572943	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	BETA-THUJONE	Shoot	--	20	-0.313491451572943	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	BETA-THUJONE	Shoot	--	20	-0.313491451572943	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.

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5	BETA-THUJONE	Shoot	--	20	-0.313491451572943	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	BETA-THUJONE	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	BETA-THUJONE	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	BETA-THUJONE	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
35	BORNEOL	Shoot	3	4	-0.394923705122541	Indian Perfumer, 35: 52.
12	BORNYL-ACETATE	Plant	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
102	CAFFEIC-ACID	Plant	--	--		Jim Duke's personal files.
9	CAMPHENENE	Leaf	6	80	-0.162453933589436	
9	CAMPHENENE	Shoot	--	115000	10.475998457193025	
9	CAMPHENENE	Shoot	--	20	-0.132431054972519	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.

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9	CAMPHENENE	Shoot	--	40	-0.13058578979385044	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
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9	CAMPHENENE	Shoot	--	30	-0.13150842238318472	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
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9	CAMPHENENE	Shoot	--	20	-0.132431054972519	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
9	CAMPHENENE	Essential Oil	--	--		
41	CAMPHOR	Flower	125	1240	-0.4037256527367186	
41	CAMPHOR	Leaf	10	3280	-0.17537277359849665	
41	CAMPHOR	Essential Oil	--	--		
37	CARVACROL	Plant	1	1	-0.8666583045604165	

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20	CHOLINE	Plant	--	--		Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
10	CUMINALDEHYDE	Shoot	4	7	-0.2854659339161764	Indian Perfumer, 35: 52.
19	D-LIMONENE	Shoot	40	40	-0.6681531047810612	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
19	D-LIMONENE	Shoot	--	40	-0.6681531047810612	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
19	D-LIMONENE	Shoot	--	50	0.5345224838248486	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
19	D-LIMONENE	Shoot	--	60	1.7371980724307592	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
19	D-LIMONENE	Shoot	--	40	-0.6681531047810612	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
19	D-LIMONENE	Shoot	--	60	1.7371980724307592	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
19	D-LIMONENE	Shoot	--	40	-0.6681531047810612	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
19	D-LIMONENE	Shoot	--	40	-0.6681531047810612	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
19	D-LIMONENE	Shoot	--	40	-0.6681531047810612	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
9	DELTA-CADINENE	Plant	14	420	2.4375748902835204	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	DIOSMETIN	Essential Oil	--	--		Gruenwald, J. et al. 1998. PDR for Herbal Medicine. 1st ed. Medical Economics Co., Montvale, NJ. 1244 pp. (abbreviated as PHR or Physicians Herbal Reference in my mind)
34	DIOSMIN	Plant	30000	60000	1.1355499479153381	
34	DIOSMIN	Shoot	--	--		
34	DIOSMIN	Leaf	--	--		
2	ELEMOL	Flower	21	215		Flavour and Fragrance Journal, 6: 72.
2	ELEMOL	Leaf	0.4	608	-0.3001877753948351	Flavour and Fragrance Journal, 6: 72.
3	ESTRAGOL	Shoot	0.1	0.1	-2.106539926775559	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
3	ESTRAGOL	Shoot	--	30	0.10458748884191567	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
3	ESTRAGOL	Shoot	--	20	-0.6349200080201161	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
3	ESTRAGOL	Shoot	--	40	0.8440949857039474	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	ESTRAGOL	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
3	ESTRAGOL	Shoot	--	30	0.10458748884191567	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
3	ESTRAGOL	Shoot	--	40	0.8440949857039474	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
3	ESTRAGOL	Shoot	--	--		Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
3	ESTRAGOL	Shoot	--	40	0.8440949857039474	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
12	ESTRAGOLE	Flower	2	18		Flavour and Fragrance Journal, 6: 69.
12	ESTRAGOLE	Leaf	1	80	-0.8780569046390017	Flavour and Fragrance Journal, 6: 69.
12	ESTRAGOLE	Essential Oil	--	--		
76	EUGENOL	Flower	62	624	-0.37203893797995374	Flavour and Fragrance Journal, 6: 72.
76	EUGENOL	Leaf	2	443	-0.764139250926167	
76	EUGENOL	Essential Oil	--	--		
5	EUGENOL-METHYL-ETHER	Shoot	50	50	1.4142135623730947	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	EUGENOL-METHYL-ETHER	Shoot	--	20	-0.40406101782088455	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	EUGENOL-METHYL-ETHER	Shoot	--	30	0.20203050891044186	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	EUGENOL-METHYL-ETHER	Shoot	--	30	0.20203050891044186	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	EUGENOL-METHYL-ETHER	Shoot	--	20	-0.40406101782088455	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	EUGENOL-METHYL-ETHER	Shoot	--	40	0.8081220356417683	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	EUGENOL-METHYL-ETHER	Shoot	--	50	1.4142135623730947	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	EUGENOL-METHYL-ETHER	Shoot	--	10	-1.010152544552211	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	EUGENOL-METHYL-ETHER	Shoot	--	30	0.20203050891044186	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	EUGENOL-METHYL-ETHER	Shoot	--	40	0.8081220356417683	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
61	FERULIC-ACID	Plant	--	--		Jim Duke's personal files.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	FURFURAL	Shoot	1	2	1	Indian Perfumer, 35: 51.
11	GAMMA-TERPINENE	Leaf	1	60	-0.2562362491576039	
35	GERANIOL	Flower	0.5	6	-0.5144293278566698	Flavour and Fragrance Journal, 6: 72.
35	GERANIOL	Leaf	0.1	2	-0.22954672153632943	Flavour and Fragrance Journal, 6: 72.
2	GERMACRENE-D	Flower	10	200	0.6421278095722747	
2	GERMACRENE-D	Leaf	4	3100	1.9841064805574304	
2	GERMACRENE-D	Shoot	920	920	0.1452819806663166	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	GERMACRENE-D	Shoot	--	900	0.1340695057747006	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	GERMACRENE-D	Shoot	--	670	0.005126044521116516	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	GERMACRENE-D	Shoot	--	990	0.18452564278697262	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	GERMACRENE-D	Shoot	--	1550	0.4984749397522208	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	GERMACRENE-D	Shoot	--	1030	0.20695059257020465	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	GERMACRENE-D	Shoot	--	950	0.1621006930037406	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	GERMACRENE-D	Shoot	--	970	0.1733131678953566	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	GERMACRENE-D	Shoot	--	920	0.1452819806663166	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	GERMACRENE-D	Essential Oil	--	--		
31	HESPERIDIN	Plant	50000	60000		
8	INOSITOL	Leaf	--	433.3		
12	IODINE	Plant	0.014	0.014	-0.4477493394460826	
4	ISOPINOCAMPHONE	Leaf	3	6520		
4	ISOPINOCAMPHONE	Shoot	130	130	-1.0068303821725977	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
4	ISOPINOCAMPHONE	Shoot	--	2940	0.8727097015815748	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
4	ISOPINOCAMPHONE	Shoot	--	3260	1.086749853468171	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
4	ISOPINOCAMPHONE	Shoot	--	1380	-0.1707360388655814	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	ISOPINOCAMPHONE	Shoot	--	1410	-0.15066977462621298	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
4	ISOPINOCAMPHONE	Shoot	--	2220	0.3911193598367336	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
4	ISOPINOCAMPHONE	Shoot	--	110	-1.02020789166551	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
4	ISOPINOCAMPHONE	Shoot	--	200	-0.9600090989474048	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
4	ISOPINOCAMPHONE	Shoot	--	130	-1.0068303821725977	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
4	ISOPINOCAMPHONE	Essential Oil	--	381000		
60	LIMONENE	Flower	5	54	-0.5756715791109762	Flavour and Fragrance Journal, 6: 69.
60	LIMONENE	Leaf	7	240	0.05717611233764573	
53	LINALOOL	Leaf	0.2	160	-0.5366457589382241	
53	LINALOOL	Flower	0.1	1	-0.5919295131645452	Flavour and Fragrance Journal, 6: 72.
53	LINALOOL	Essential Oil	--	--		
8	MARRUBIIN	Plant	--	--		
6	METHYL-CHAVICOL	Shoot	1	260	1.6431262740379204	
20	METHYL-EUGENOL	Plant	7	100	-0.5641652169732609	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
20	METHYL-EUGENOL	Shoot	7	100	-0.562321857612429	
22	MYRCENE	Shoot	27	400	0.11420850874501413	
5	MYRTENAL	Shoot	24	30	-0.28722839924002375	Indian Perfumer, 35: 52.
2	MYRTENOL	Flower	16	160		
2	MYRTENOL	Leaf	0.5	520	4.047540790648524	
2	MYRTENOL	Shoot	260	260	0.18213108633003047	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
2	MYRTENOL	Shoot	--	170	0.032011825954089385	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
2	MYRTENOL	Shoot	--	190	0.0653716615931874	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
2	MYRTENOL	Shoot	--	250	0.16545116851048147	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
2	MYRTENOL	Shoot	--	200	0.08205157941273641	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
2	MYRTENOL	Shoot	--	220	0.11541141505183443	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.
2	MYRTENOL	Shoot	--	210	0.09873149723228541	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis L.</i>) J. Agric. Food Chem. 42: 776-781.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	MYRTENOL	Shoot	--	240	0.14877125069093244	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	MYRTENOL	Shoot	--	260	0.18213108633003047	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	MYRTENOL	Essential Oil	--	--		
1	MYRTENYL-ACETATE	Plant	--	--		
10	NEROL	Flower	0.8	8	-1.1381482713893585	Flavour and Fragrance Journal, 6: 72.
10	NEROL	Leaf	0.8	9	-0.2680817417810032	Flavour and Fragrance Journal, 6: 72.
2	NONANOIC-ACID	Plant	--	--		
64	OLEANOLIC-ACID	Plant	--	--		
16	P-CYMENE	Plant	6	180	-0.3733987842290206	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
16	P-CYMENE	Essential Oil	--	--		
6	PHENETHYL-ALCOHOL	Plant	--	--		Planta Medica, 55: 226.
4	PINOCAMPHONE	Flower	200	2060		
4	PINOCAMPHONE	Leaf	24	12040		
4	PINOCAMPHONE	Shoot	--	691000	3.1621380760355877	
4	PINOCAMPHONE	Shoot	--	1950	-0.3159462820669804	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	PINOCAMPHONE	Shoot	--	1970	-0.31584532903430923	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
4	PINOCAMPHONE	Shoot	--	160	-0.3249815784910477	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
4	PINOCAMPHONE	Shoot	--	140	-0.32508253152371885	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
4	PINOCAMPHONE	Shoot	--	270	-0.3244263368113564	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
4	PINOCAMPHONE	Shoot	--	4870	-0.30120713929699344	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
4	PINOCAMPHONE	Shoot	--	4600	-0.3025700052380539	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
4	PINOCAMPHONE	Shoot	--	4620	-0.3024690522053827	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
4	PINOCAMPHONE	Essential Oil	--	440000		
1	PINOCARVONE	Shoot	170	170	-0.44935069162133884	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
1	PINOCARVONE	Shoot	--	530	-0.06062300782944939	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	PINOCARVONE	Shoot	--	560	-0.02822903418012527	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
1	PINOCARVONE	Shoot	--	570	-0.017431042963683897	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
1	PINOCARVONE	Shoot	--	2530	2.098975235458825	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
1	PINOCARVONE	Shoot	--	2550	2.120571217891708	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
1	PINOCARVONE	Shoot	--	2620	2.1961571564067977	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
1	PINOCARVONE	Shoot	--	120	-0.5033406477035457	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
1	PINOCARVONE	Shoot	--	220	-0.395360735539132	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
1	PINOCARVONE	Shoot	--	170	-0.44935069162133884	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
1	PINOCARVONE	Essential Oil	--	203000		
57	ROSMARINIC-ACID	Plant	5000	5000	-1.4207683050352211	Fitoterapia No.62: 166.
57	ROSMARINIC-ACID	Inflorescence	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	SABINENE	Flower	10	100	-0.43270519325643764	
5	SABINENE	Leaf	28	380	-0.019095817088093343	
5	SABINENE	Shoot	90	90	-0.2000946420151711	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	SABINENE	Shoot	--	70	-0.2213896247926011	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	SABINENE	Shoot	--	110	-0.178799659237741	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	SABINENE	Shoot	--	150	-0.1362096936828808	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	SABINENE	Shoot	--	80	-0.21074213340388603	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	SABINENE	Shoot	--	110	-0.178799659237741	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	SABINENE	Shoot	--	110	-0.178799659237741	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
5	SABINENE	Shoot	--	80	-0.21074213340388603	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	SABINENE	Shoot	--	90	-0.2000946420151711	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
35	TANNIN	Plant	50000	80000	-0.053082229266390064	Lawrence Review of Natural Products, Jan-87.
23	TERPINEN-4-OL	Flower	2	28	-0.877935181573476	Flavour and Fragrance Journal, 6: 72.
23	TERPINEN-4-OL	Leaf	1	790	0.11076020391043574	Flavour and Fragrance Journal, 6: 72.
18	TERPINEOL	Essential Oil	--	--		
9	TERPINOLENE	Leaf	1	20	-0.20661710588269624	
5	TERPINYL-ACETATE	Plant	--	--		
5	TERPINYL-ACETATE	Shoot	--	--		
71	THYMOL	Shoot	2	3	-0.33238938578824073	Indian Perfumer, 35: 52.
2	TRANS-PINOCARVEOL	Shoot	60	60	-0.18541525492853406	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	TRANS-PINOCARVEOL	Shoot	--	60	-0.18541525492853406	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	TRANS-PINOCARVEOL	Shoot	--	40	-0.19425486566146222	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	TRANS-PINOCARVEOL	Shoot	--	40	-0.19425486566146222	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	TRANS-PINOCARVEOL	Shoot	--	60	-0.18541525492853406	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	TRANS-PINOCARVEOL	Shoot	--	50	-0.18983506029499814	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	TRANS-PINOCARVEOL	Shoot	--	40	-0.19425486566146222	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	TRANS-PINOCARVEOL	Shoot	--	90	-0.17215583882914187	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	TRANS-PINOCARVEOL	Shoot	--	60	-0.18541525492853406	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
2	TRANS-PINOCARVEOL	Shoot	--	70	-0.18099544956207	Kerrola, K., Galambosi, B. and Kallio, H. 1994. Volatile Components and Odor Intensity of Four Phenotypes of Hyssop (<i>Hyssopus officinalis</i> L.) J. Agric. Food Chem. 42: 776-781.
89	URSOLIC-ACID	Plant	4900	4900	-0.5616031801935085	
3	XANTHOPHYLL	Plant	3556	3556		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.